

4.2.B. 06010201150

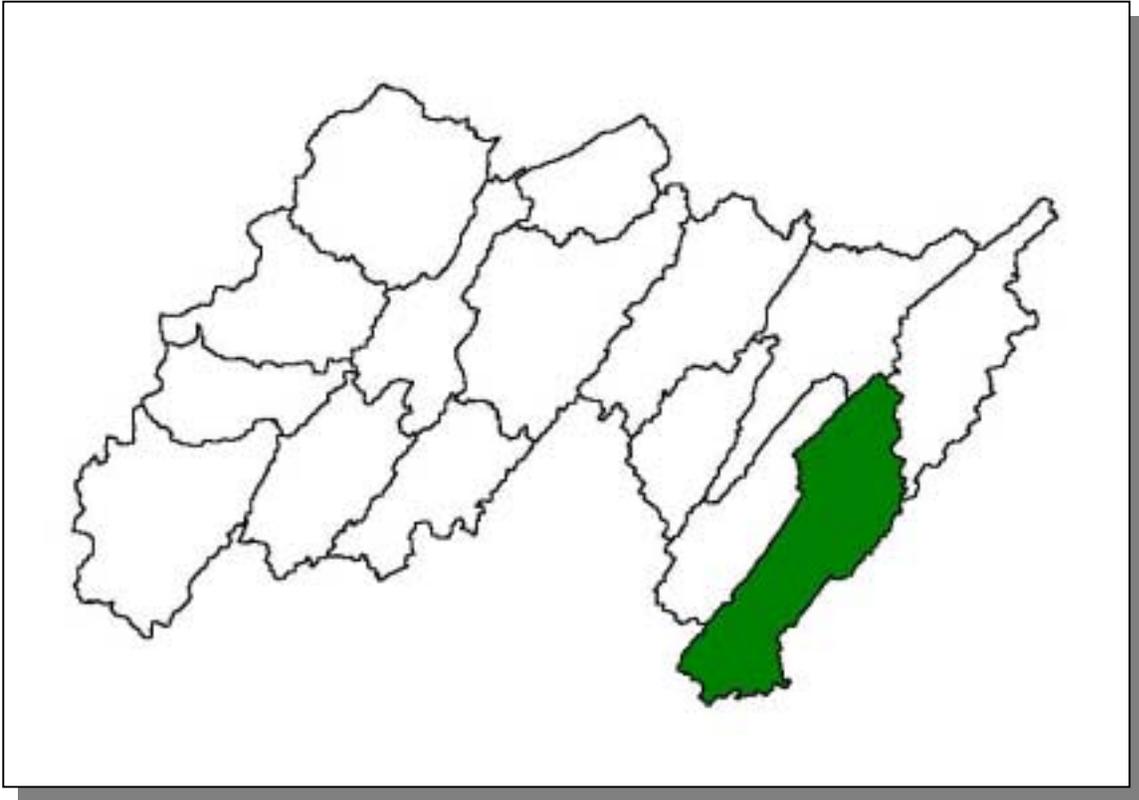


Figure 4-9. Location of Subwatershed 06010201150. All Watts Bar HUC-14 subwatershed boundaries are shown for reference.

4.2.B.i. General Description.

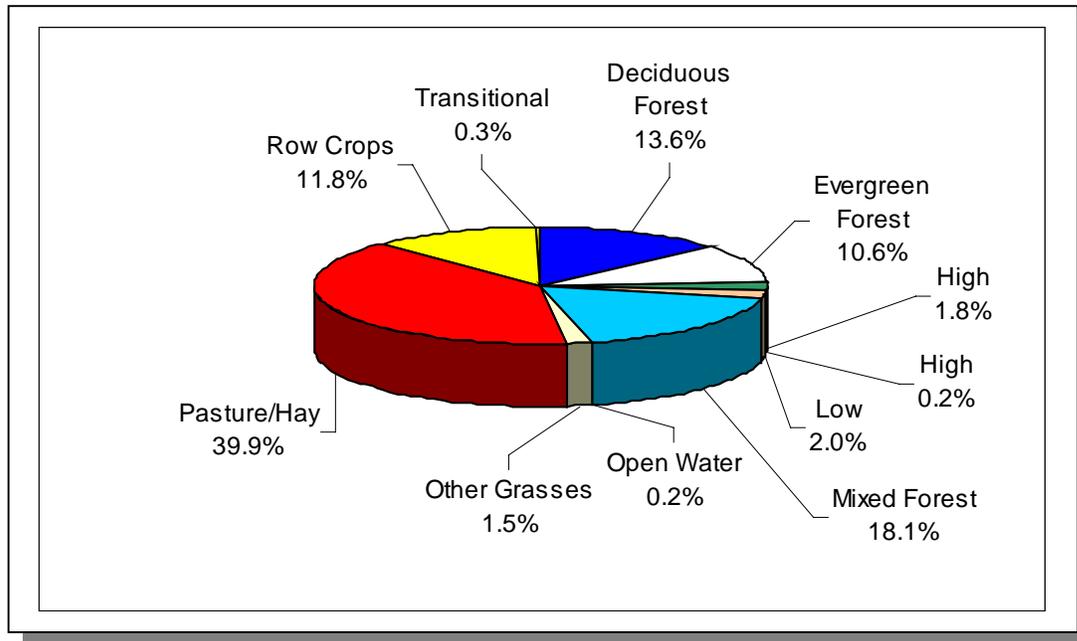


Figure 4-10. Land Use Distribution in Subwatershed 06010201150. More information is provided in Watts Bar-Appendix IV.

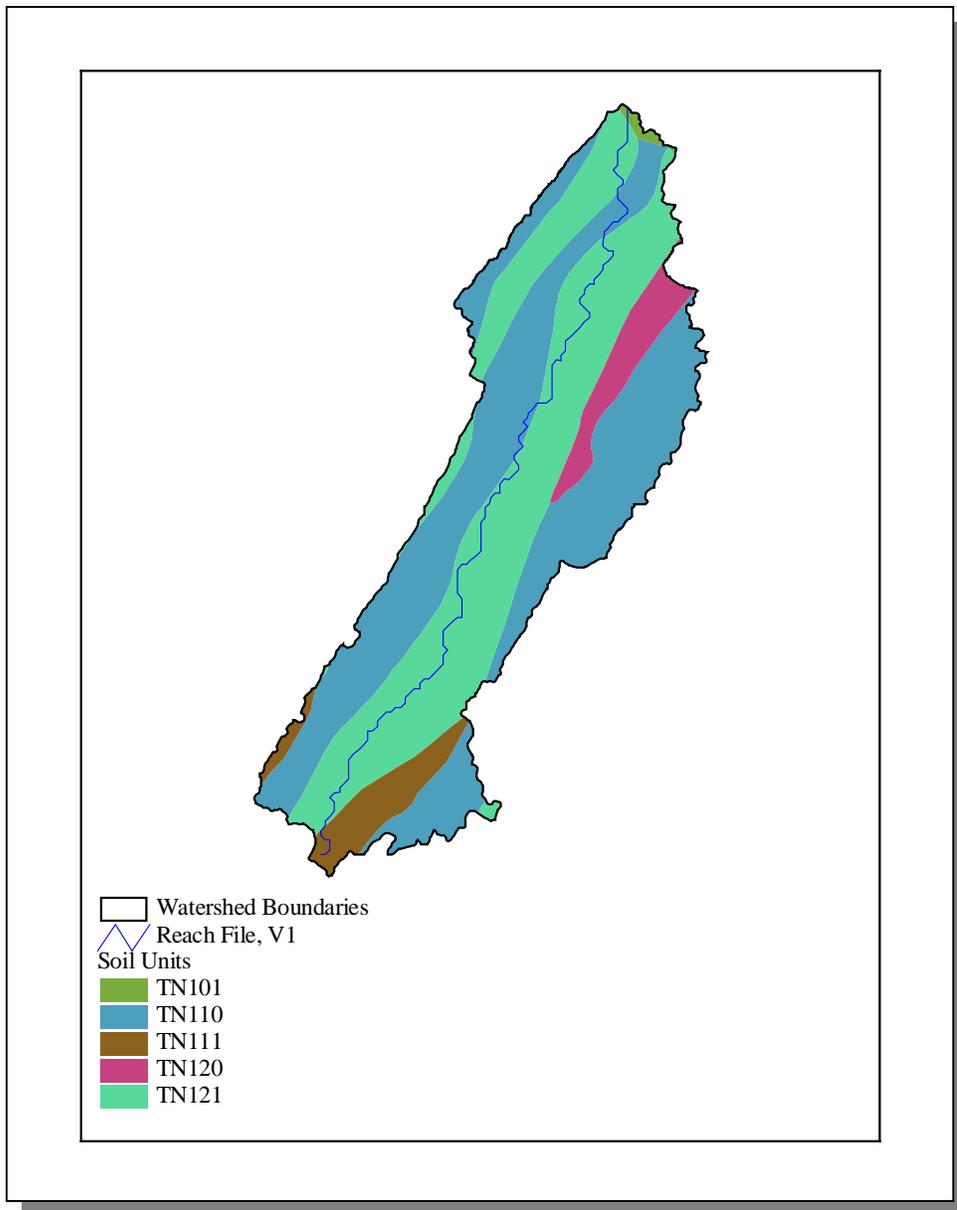


Figure 4-11. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 06010201150.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN101	0.0	B	1.71	5.39	Loam	0.35
TN110	0.0	B	2.22	4.96	Loam	0.31
TN111	0.0	C	1.41	5.10	Loam	0.34
TN120	0.0	B	1.68	5.11	Loam	0.27
TN121	0.0	B	1.30	5.21	Loam	0.33

Table 4-11. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 06010201150. More information is provided in Watts Bar-Appendix IV.

County	COUNTY POPULATION		Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED		% CHANGE
	1990	1997 Est.		1990	1997	
Loudon	31,255	38,245	9.39	2,934	3,590	22.4
McMinn	42,383	46,000	2.31	978	1,061	8.5
Monroe	30,541	33,953	4.49	1,370	1,523	11.2
Totals	104,179	118,198		5,282	6,174	16.9

Table 4-12. Population Estimates in Subwatershed 06010201150.

Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Loudon	Loudon	4,026	1,832	1,701	131	0
Philadelphia	Loudon	474	203	12	189	2
Sweetwater	Monroe	5,054	2,164	1,598	560	6
Total		9,554	4199	3,311	880	8

Table 4-13. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 06010201150.



Figure 4-12. Location of Historical Streamflow Data Collection Sites in Subwatershed 06010201150. More information is provided in Watts Bar-Appendix IV.

4.2.B.ii. Point Source Contributions.



Figure 4-13. Location of Active Point Source Facilities (Individual Permits) in Subwatershed 06010201150. More information, including the names of facilities, is provided in Watts Bar-Appendix IV.

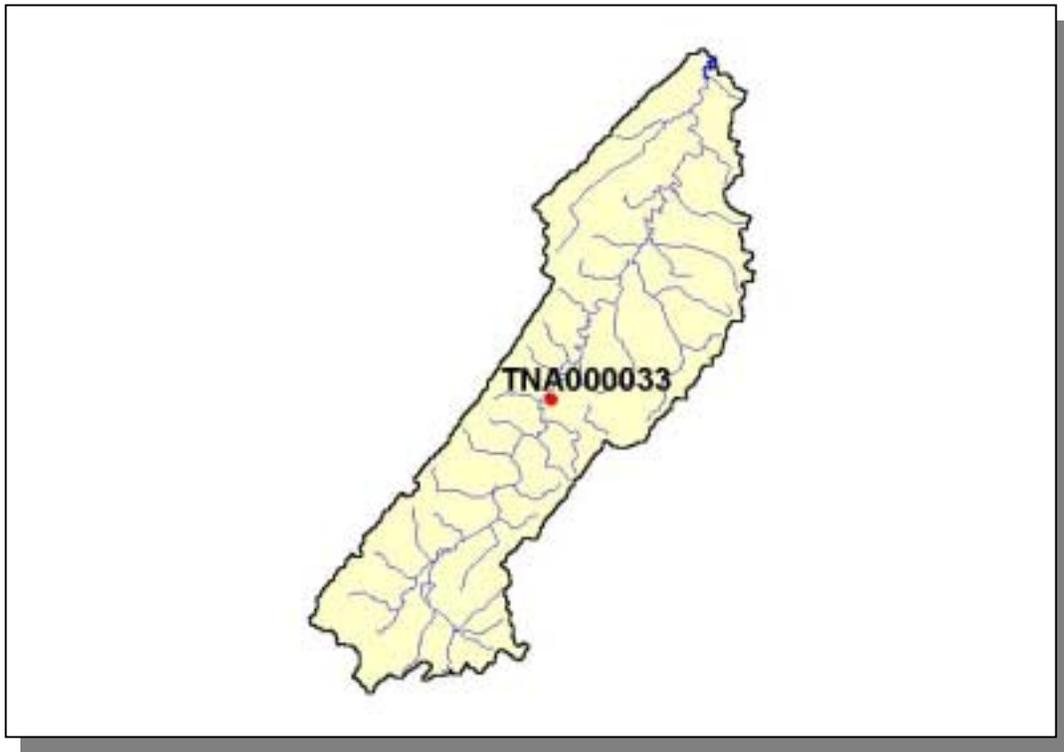


Figure 4-14. Location of Concentrated Animal Feeding Operation (CAFO) Sites in Subwatershed 06010201150. More information is provided in Watts Bar-Appendix IV.

4.2.A.ii.a. Dischargers to Water Bodies Listed on the 1998 303(d) List

There are two NPDES facilities discharging to water bodies listed on the 1998 303(d) list in Subwatershed 06010201150:

- TN0060143 discharges to mile 1.2 of Unnamed Trib to Sweetwater Creek @ RM 22.0
- TN0073806 discharges to Sweetwater Creek @ RM 12.0



Figure 4-15. Location of NPDES Dischargers to Water Bodies Listed on the 1998 303(d) List in Subwatershed 06010201150. The names of facilities are provided in Watts Bar-Appendix IV.

PERMIT #	7Q10	1Q20	30Q2	QDESIGN	QLTA
TN0060143					0.15
TN0073806					0.0002

Table 4-14. Receiving Stream Flow Information for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 06010201150. Data are in million gallons per day (MGD). 30Q2 data were obtained by using data in Flow Duration and Low Flows of Tennessee Streams Through 1992.

PERMIT #	CBOD ₅	WET	METAL
TN0060143	X		X
TN0073806		X	X

Table 4-15. Monitoring Requirements for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 06010201150.

PERMIT #	BENZENE	ETHYLBENZENE	XYLENE	TOLUENE	Pb
TN0060143					X
TN0073806	X	X	X	X	

Table 4-16. Parameters Monitored for Daily Maximum (mg/L) Limits for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 06010201150.

4.2.B.iii. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens	Chickens Sold	Hogs	Sheep
4,807	12,189	1,898	12	448,853	83	59

Table 4-17. Summary of Livestock Count Estimates in Subwatershed 06010201150. According to the Census of Agriculture, "Cattle" includes heifers, heifer calves, steers, bulls and bull calves.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Loudon	62.3	62.3	1.1	3.5
Monroe	301.5	279.1	7.4	21.4
Total	363.8	341.4	8.5	24.9

Table 4-18. Forest Acreage and Average Annual Removal Rates (1987-1994) in Subwatershed 06010201150.

CROP	TONS/ACRE/YEAR
Corn (Row Crops)	10.97
Tobacco (Row Crops)	3.77
Grass (Hayland)	0.56
Legume (Hayland)	0.77
Legume Grass (Hayland)	0.75
Grass (Pastureland)	0.71
Grass, Forbs, Legumes (Mixed Pasture)	0.51
Forest Land (Grazed)	0.00
Forest Land (Not Grazed)	0.00
Farmsteads and Ranch Headquarters	0.34
Wheat (Close Grown Cropland)	4.69
Non Agricultural Land Use	0.00
Soybeans (Row Crops)	12.82

Table 4-19. Annual Estimated Total Soil Loss in Subwatershed 06010201150.